

# 1N4454UR-1

## FEATURES

- 1N4454UR-1 AVAILABLE IN JAN, JANTX, AND JANTXV PER MIL-PRF-19500/144
- SWITCHING DIODE
- METALLURGICALLY BONDED
- HERMETICALLY SEALED
- DOUBLE PLUG CONSTRUCTION
- ALSO AVAILABLE AS LL4454, CDLL4454, & MLL4454



## MAXIMUM RATINGS AT 25 °C

Operating Temperature:	-55°C to +175°C
Storage Temperature:	-55°C to +175°C
Surge Current, Sine, 1uS:	4.0A
Total Power Dissipation:	500mW
Operating Current:	200mA, T <sub>A</sub> = +25°C
Derating Factor:	1.33mA/°C above T <sub>A</sub> = +25°C
D.C. Reverse Voltage (VRWM):	50V

## DC ELECTRICAL CHARACTERISTICS

V <sub>F</sub>				I <sub>R</sub>				V <sub>BR</sub>			
Ambient (°C)	I <sub>F</sub> mA	Min V	Max V	Ambient (°C)	V (dc)	Min μA	Max μA	Ambient (°C)	I <sub>R</sub> μA	Min V	Max V
25	10	-	1.0	25	50	-	0.1	25	5	75	-
150	10	-	0.7	150	50	-	100	-55	10	75	-

## DESIGN DATA

**Case:** Hermetically sealed glass package per MIL-PRF-19500/144 DO-213AA outline

**Lead Material:** Copper clad steel

**Lead Finish:** Tin/Lead

**Thermal Resistance (R<sub>θJC</sub>):** 100°C/W maximum

**Thermal Impedance (Z<sub>θJX</sub>):** 70°C/W maximum

**Polarity:** Cathode end is banded.

## AC ELECTRICAL CHARACTERISTICS AT 25°C

	Symbol	Min	Max
Capacitance @ 0V	pF	-	2.0
T <sub>RR</sub> @ I <sub>F</sub> =I <sub>R</sub> =10mA, I <sub>rec</sub> = 1mA.	nsec	-	4.0
T <sub>FR</sub> @ IF = 100mA	nsec	-	30
V <sub>FR</sub> @ IF = 100mA	V(pk)	-	5



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